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					Application Number	10/667,763
	IN	FORMATION DISC	CLO	SURE	Filing Date	09/22/2003
		TATEMENT BY AP			First Named Inventor	Ray Wasielewski
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		(Use as many sheets as nec	essary)			Philogene, Pedro
Sh	neet	1	of.	4	Attorney Docket Number	DEP759NP

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (T known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/P.P./		<sup>US-</sup> 5033291	07/23/1991	Podoloff, et al	
1		<sup>US-</sup> 4856993	08/15/1989	Maness, et al	
		<sup>US-</sup> 5197488	03/30/1993	Kovacevic, Nebojsa	
		<sup>US-</sup> 5360016	11/01/1994	Kovacevic, Nebojsa	
		<sup>US-</sup> 5496352	03/05/1996	Renger, Herman L.	
	ļ	<sup>US-</sup> 5470354	11/28/1995	Hershberger, et al	
	1	<sup>US-</sup> 5425775	06/20/1995	Kovacevic, et al	
		<sup>US-</sup> 6174294	01/16/2001	Crabb, et al	
		<sup>US-</sup> 5197488	03/30/1993	Kovacevic, Nebojsa	
		<sup>US-</sup> 5326363	07/05/1994	Aikins, Jerry L.	
	1	<sup>US-</sup> 5360016	11/01/1994	Kovacevic, Nebojsa	
. ,		<sup>US-</sup> 5425775	06/20/1995	Kovacevic, et al	
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	FOREIGN PATENT DOCUMENTS									
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Substitute for fe	orm 1449B/PTO			Complete if Known			
				Application Number	10/667,763		
<b>INFOR</b>	MATION D	ISCLO	SURE	Filing Date	09/22/2003		
STATE	MENT BY	<b>APPLI</b>	CANT	First Named Inventor	Ray Wasielewski		
				Art Unit	3733		
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Sheet	Ĩ	of	4	Attorney Docket Number	DEP759NP		

		NON PATENT LITERATURE DOCUMENTS	
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/P.P./		HARRIS, M.L. FT At., "An Improved Method for Measuring Tibiofemoral Contact Areas in Total Lice Arthroplasty: A Comparison of K. Soin States and Fuji Film." Journal of Biomechanics (1999), 3251., p. 951-958,	
/P.P./		SZIVEK, JOHN A., PHD., ET AL, "Average and Peak Contact Stress Distribution Evaluation of Total Knee Arthroplastics," The Journal of Arthroplasty (1996), Vol. 11 (No. 8), p. 992-963.	
/P.P./		BEHRENS, FRED M.D., ET AL, "Bendign Stiffness of Unilateral and Bilateral Fixator Frames," Clinical Orthopaedics and Related Research (September 1983), p. 103-110,	
/P.P./		VALDEVIT, ANTONIO, ET AL, "Characterization and Application of Think I'm Pressure Sensors," Bio-Medical Materials and Engineering (1999), p. 81	,
/P.P./		GOLA, M.M., ET AL, "Developments in Transducer Stems for Mechanical Coupling Measurements in Endoprosthetics," MEP Ltd. (1982), Vol. 11 (No. 4), p. 183 86,	
/P.P./		AN, KAI NAN ET AL, "Direct In Vive Tenden Force Measurement System" J. Biomechanics (1990), Vol. 23 (No. 12), p. 1269-1251,	
/P.P./		FH IAGGI, MARK J., ET AL, "Evaluating Sol-Gel Ceramic Thin Films for Metal Implant Applications. II.  Adhesion & Fatigue Proportion of Zimenia Films on Ti 6A1 4V," Journal of Biomedical Macrials  Research (Applied Biometerials) (1996), p. 239-256	•••••
/P.P./		KAUFMAN, KENTON R., ET AL, "Instrumented Implant for Measuring Tibiofemoul Forces (1996)," Journal Biomechanics, Vol. 29 (No. 5), p. 667-601,	
/P.P./		MARKOLF, KEITH L., PH.D., ET AL, "In Vitro Measurement of Bone-Acrylic Interface Pressure During Femoral Component Insertion," Clinical Orthopaedics and Related Research (November-December, 1976), p. 60-66,	
/P.P./		ENGLISH, T.A., ET AL, "In Vivo Records of Hip Loads Using a Femoral Implant with Telemetric Output (A Preliminary Report)," Journal Biomedical Engineering (April 1979), Vol. 1 (No. 2), p. 111-115,	

Examiner Signature	/Pedro Philogene/	Date Considered	11/16/2007

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<b>INFOR</b>	MATION D	ISCLO	SURE	Filing Date	09/22/2003		
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Sheet	3	of	4	Attorney Docket Number	DEP759NP		

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/P.P./		OH, INDONG, M.D., ET AL, "Proximal Strain Distribution in the Loaded Femur," The Journal of Bone and Joint Surgery (January 1978), Vol. 60A (No. 1), p. 75-85,	
/P.P./		TAKAHASHI, TOSHIAKI ET AL, "Soft Tissue Balancing with Pressure Distribution During Total Knee Arthroplasty," The Journal of Bone and Joint Surgery (March 1997), p. 235-239,	
/P.P./		DAVY, D.T., ET AL, "Telemetric Force Measurements Across the Hip after Total Arthroplasty," The Journal of Bone and Joint Surgery (January 1988), Vol. 70A (No. 1), p. 45-50,	
/P.P./		BROWN, RICHARD H., ET AL, "Telemetering In Vive Leads from Nail Plate Implairs," Journal Diomechanics (1982), Vol. 15 (No. 11), p. 815-823,	
/P.P./		LAU, J.J., ET AL, "The Influence of Inserting of Fuji Pressure Sensitive Film Between the Tibiofame al Jeint of Knee Presthesis on Actual Contact Characteristics," Clinical Biomochanics (2001), p. 160-16,	<u></u>
/P.P./		GUPTA, SUSHI K., M.D., ET AL, "Use of Piezoelectric Film Sensor for Monitoring Vascular Grafts," The American Journal of Surgery (August 1990), p. 182-186,	
/P.P./		MCDERMOTT, A.G.P., M.D., ET AL, "A New Method to Measure Intraosseous Pressures," Clinical Orthopaedics and Related Research (July 1986), p. 25-27,	
/P.P./		MANN, R.W., ET AL, "Rehabilitation Implications of In Vivo Hip Pressure Measurements," Proceedings of the Ninth Annual Conference on Rehabilitation Technology (June 23-26, 1986), Association for the Advancement of Rehabilitation Technology (Minneapolis, Minnesota (Copyright 1986)),	
/P.P./		RUSHFELDT, P.D., ET AL, "Improved Techniques for Measuring In Vitro The Geometry and Pressure Distribution in the Human Acetabulum—II. Instrumented Endoprosthesis Measurement of Articular Surface Pressure Distribution." J. Diomechanics, Vol. 14 (No. 5), p. 315-328.	
/P.P./		CARLSON, CHARLES E., ET AL, "A Look at the Prosthesia Cartilage Interface: Design of a Prosthesia Centaining Prosture Transducers," J. Diemedical Material Research Symposium (1974), hin Wiley & Sons, Inc., p. 261-29,	

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Examiner Signature	/Pedro Philogene/	Date Considered	11/16/2007

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STAT	EMENT BY A	<b>APPLI</b>	CANT	First Named Inventor	Ray Wasielewski	
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/P.P./		HODGE, W.A., M.D., ET AL, "Contact Pressures from an Instrumented Hip Endoprosthesis," The Journal of Bone and Joint Surgery Incorporated (October 1989), Vol. 71A (No. 9), p. 1378-1386,	
/P.P./		J <del>OINSON, WESLEY D., ET AL, "Test Methodology: Evaluation of Load Transfer Across Total Knee Replacement," Spring National Design Engineering Show &amp; Conference, p. 131 88,</del>	
/P.P./		BEREITER, H., M.D., ET AL, "Telemetric Measurement of the Pressure Conditions in the Interface of Implanted Acetabulum Presthesis (In Vive)," Rhatisches Kantonsspatal Chur, Institut für Physik Basil, Crthopadische Universitätsklinik Basil,	
/P.P./		WASIELEWSKI, RAY C. "Declaration" unpublished, dated 8/22/07	

Examiner // Signature	Pedro Philogene/	Date Considered	11/16/2007

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Confirmation Number	1366
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First Named Inventor	Ray Wasielewski
Group Art Unit	3733
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/D D	,	CARLSON, CHARLES E., ET AL, "A Radio Telemetry Device for Monitoring							
/P.P./		Cartilage Surface Pressures in the Human Hip," IEEE Transactions on Biomedical							
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